



PYRAMID
ELECTRONICS

ON - GRID SOLAR INVERTER



Rating(Single Phase): 1.1kW, 2.2kW, 3.3kW, 4kW, 5kW Rating
(Three Phase) : 5kW,6.6kW,8.8kW,10kW,12kW,15kW

- Voc 1000V DC
- GSM & Wi-Fi Based Remote Monitoring
- Auto In Built DC Switch
- Highest MPPT Voltage Range
- Excellent Efficiency & Power Density
- Lowest Grid Current T.H.D
- Excellent Customer Support
- Quick Replacement

- Remote Monitoring via Mobile App
- Night Operation
- Compatible With High Power Bi-Facial Mono-Crystalline PV Panels
- Excellent Overload Capability
- Enhanced Safety
- Automatic Failure Detection
- Easy Installation



Pan India Service Network



Remote Monitoring

MARKETING OFFICE

Plot No. 486, Industrial Area, Phase-1, Panchkula, Haryana-134113

Mobile: 9872998998,9212749408, Email :pyramid.pwn@pyramidelectronics.in, Web : www.pyramidelectronics.in

GRID TIED SOLAR INVERTER

3.3 KW / 5 KW /10 KW

Pyramid Electronics (2020)

Pyramid Electronics

Nalagarh, Himachal Pradesh



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Novel Features :

1. Most suitable for a single high voltage PV string configuration.
2. Highest MPP input voltage range (200-800) V.
3. Highest efficiency and power density achieved with use of latest generation high voltage SiC power devices.
4. Zero residual current transformer-less topology.
5. Option to provide Grid support at night through reactive power compensation.

Table 1: **GRID-TIED SOLAR INVERTER (3.3 KW / 5 KW / 10 KW)**

Technical Data	3.3 KW	5.0 KW	10 KW
PV String Input Data			
Max. DC Input Voltage (V)	900	900	900
MPPT Range (V)	200-800	300-800	200-800
Start-up Voltage (V)	100	100	100
MPPT Range for Full Load (V)	200-800	300-800	200-800
Nominal Input DC Voltage (V)	500	550	500
Max. Input Current (A)	17	17	17 (per MPP Tracker)
No. of MPP Trackers	1	1	3
No. of Inputs Strings per Tracker	1	1	1 (per MPP Tracker)
AC Output Data			
AC Output Type	1- ϕ	1- ϕ	3- ϕ , 4-wire
Nominal Output Power (W)	3300	5000	3333 (per-phase)
Max. Output Apparent Power (VA)	3300	5000	3333 (per-phase)
Nominal Output Voltage (V)	240	240	415
Nominal Output Frequency (Hz)	50	50	50
Max. Output Current (A)	17	25	17 (per-phase)
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging	Adjustable from 0.8 leading to 0.8 lagging	Adjustable from 0.8 leading to 0.8 lagging
Output THD (@Nominal Output)	< 2%	< 2%	< 2%
Efficiency			
Max. Efficiency	98%	98%	98%
Euro Efficiency	97%	97%	97%
Protection			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
SPDs AC and DC Side	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (*C)	-25 to 60	-25 to 60	-25 to 60
Relative Humidity	0-95%	0-95%	0-95%
Operating Altitude (m)	<=2000	<=2000	<=2000
Cooling	Natural Convection	Natural Convection	Natural Convection
Noise (db)	< 25	< 25	< 25
User Interface	LCD & LED	LCD & LED	LCD & LED
Communication	RS-485	RS-485	RS-485
Weight (kg)	14	15	28
Size (Width x Height x Depth mm)	440 x 300 x 211	440 x 300 x 211	440 x 600 x 311
IP Protection	IP 65	IP 65	IP 65
Night Self Consumption (W)	< 20	< 20	< 20
Topology	Transformer-less	Transformer-less	Transformer-less
Standards			
MPP Efficiency	> 98% based on EN 50530 Testing	> 98% based on EN 50530 Testing	> 98% based on EN 50530 Testing
Safety Standard	IS 1622 / IEC 62109-2	IS 1622 / IEC 62109-2	IEC 62109-2
Anti-islanding	IS 16169 / IEC 62116	IS 16169 / IEC 62116	IEC 62116
Harmonic Current Control	IEC 61000-3-2	IEC 61000-3-2	IEC 61000-3-2
Under/Over Voltage Setting	as per CEA India	as per CEA India	as per CEA India
Under/Over Frequency Setting	as per CEA India	as per CEA India	as per CEA India